

Diagram No. 6450-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey Field Examination

Field No. SU-05147

Office No. FE-59

LOCALITY

State Washington

General Locality Puget Sound

Locality Foulweather Bluff

19 47

CHIEF OF PARTY

T.B. Reed

LIBRARY & ARCHIVES

DATE April 8, 1947

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as:

FE No.1 1947



FENO.1 1947 FE-59

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Diag'd. on Diag. Ch. No. 6450-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU-05147 Office No.

LOCALITY

State Washington

General locality Puget Sound

Locality Foulweather Bluff

CHIEF OF PARTY

Thos. B. Reed

APR 8 1947

LIBRARY & ARCHIVES

SURVEYOR

DATE .

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Form 537 (Ed. Nov. 1941)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NOFE - No. 1 (1947)

Field No. SU 05147

| State | Washington |
|--------------------------------|--|
| General locality | Puget Sound |
| Locality | Foulweather Bluff |
| Scale 1:5,000 | Date of survey 22 January 1947 |
| Instructions dated | 29 October 1946 |
| Vessel | SURVEYOR, Launch No. 2 |
| Chief of party | T. B. Reed |
| Surveyed by | K, B, Jeffers |
| Soundings taken by fathometer, | graphic recorder, handchadcocinex |
| Protracted by | C. N. Hillman |
| Soundings penciled by | C. N. Hillman |
| Soundings in xfatherns feet | at xxx |
| REMARKS: Special survey | to investigate 8 ft. spot shown on chart No. 6421. |
| Plotted in the | Seattle Processing Office |
| | |
| | |
| | |
| | |

s. GOVERNMENT PRINTING OFFICE 42897

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET SU-05147 PUGET SOUND, WASHINGTON PROJECT CS-314 1947

SCALE OF SURVEY:

1:5000

CHIEF OF PARTY:

T. B. Reed, Commanding SHIP SURVEYOR

FIELD WORK BY:

K. B. Jeffers and H. D. Reed

A. PROJECT:

Authority for this survey is contained in the supplemental instructions for Project CS-314 issued by the Supervisor, Northwestern District under date of October 29, 1946. The survey was limited to an investigation of the 8 foot sounding shown on Chart No. 6421, and was made at the request of the U. S. Coast Guard.

B. SURVEY LIMITS AND DATES:

The survey covers the area surrounding the charted 8 foot sounding off the northeast point of Foulweather Bluff. The field work was done on January 22, 1947.

C. VESSEL AND EQUIPMENT:

Field work was done by a launch party operating from the SHIP SURVEYOR. All soundings were obtained with an 808 type fathometer number 47-8

D. TIDE AND CURRENT STATIONS:

Tide data for the reduction of soundings were obtained from the Washington Office based on recorded tides at the Seattle standard station.

No current stations were occupied.

E. SMOOTH SHEET:

The smooth sheet will be constructed and the hydrography plotted by personnel in the Seattle Processing Office. Tracing attached to this report serves as smooth sheet

F. CONTROL STATIONS:

The control is based on FOULWEATHER 1921 and the azimuth to Point No Point Lighthouse.

G. TOPOGRAPHY:

The signals were located on the boat sheet by plane table methods. The triangulation station FOULWEATHER was not recovered, however both reference marks were recovered and reference mark No. 1 was used as a starting point. The shore line was not plotted.

H. SOUNDINGS:

Soundings were recorded in feet using 808 recorder No. 47-S. Standard methods were used.

I. CONTROL OF HYDROGRAPHY:

The sounding lines were controlled by sextent fixes on shore signals.

J. ADEQUACE OF SURVEY:

The survey is considered adequate to disprove the existance of the 8 foot sounding shown on Chart No. 6421.

K. CROSSINGS:

The crossings are satisfactory.

L. COMPARISON WITH PREVIOUS SURVEYS:

No comparison was made with previous surveys except for the above noted 8 foot sounding. (J)

N. DANGERS AND SHOALS:

No additional shoals were found.

O. COAST PILOT INFORMATION:

None

P. AIDS TO NAVIGATION:

Lighted bell buoy No. 2 is correctly charted and is far enough offshore to provide adequate clearance of all dangers.

Q. LANDMARKS FOR CHARTS:

None

TABULATION OF APPLICABLE DATA:

Velocity correction sheet.

List of signals.

Tidal data sheet.

Respectfully submitted,

Karl B. Jeffers, Lt. Comdr., C. & G. Survey.

Approved:

A. P. Ratti, Commander, C. & G. Survey Commanding SHIP SURVEYOR

SU-05147

TIDAL DATA SHEET

Tide reducers were furnished by the Washington Office and are based on the standard gage records at Seattle corrected for time and range. A copy of the Director's letter is attached hereto.

SHEET No. SU-05147

List of Signals

DAN

| Name | Origin of Station |
|------|---|
| ACE | All signals located |
| BAG | On the boat sheet by plane table methods. |
| COB | |

March 7, 1947

TO:

The Commanding Officer, U.S.C. & G. Ship SURVEYOR 400 Insurance Bldg. Seattle 4, Washington

SUBJECT:

Tide data, Washington

Tide reducers for soundings made on January 22, 1947 off foulweather Bluff requested in your letter of March 3, 1947 are as follows: 6.3 Feet at 11:00; 6.2 feet at 12:00; 6.7 feet at 13:00; 7.3 feet at 14:00. Times are Pacific Standard (120th Meridian) and heights are referred directly to mean lower low water. These reducers are based on tide record for Seattle and necessary allowances have been made for time and range differences.

/S/ J.H. Hawley Acting Director.

SU 05147

Foulweather Bluff, Washington

Examination of Shoal

The plotted positions were checked on the boat sheet.

The positions, signals and projection were traced on linen.

Reduced soundings were plotted on the tracing.

Soundings are in feet.

Respectfully submitted,

Edgar E. Smith

Cartographic Engineer Seattle Processing Office

NAUTICAL CHART BRANCH

REVIEW OF FIELD EXAMINATION NO. 1 1947

- 1. This field examination was made for the purpose of investigating the 9½-ft. sounding (8 charted on chart 6421) in lat. 47° 56.54', long. 122° 36.08', which originates with H-1729 (1885-86). The 9½-ft. is incorrectly shown as 8 ft. on the hydrographic sheet. A correction of 1½ ft. must be added to the 8 (reduction to MILW in accordance with the tidal note) thus making the correct depth 9½ ft. This sounding is the least depth on a submerged boulder located by a detached position. No check angle was taken on the fix.
- 2. The development in the immediate vicinity of the $9\frac{1}{2}$ ft. (8 charted) is adequate to disprove the existence of a boulder at that location, and in concurrence with the Descriptive Report and Chart Letter 81 (1947), it is recommended that the sounding be removed from the chart.
- on the present examination covers only a small area, however, similar dangers could still remain undiscovered farther inshore where there are open areas of 12 to 20 meters between sounding lines. Indications of submerged boulders in this vicinity are recorded on the fathograms of the present investigation.

Inspected by:

H. W. Murray

Reviewed by:

R. H. Carstens

June 2, 1947

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 11, 1947

Division of Charts: H. W. MURRAY

Plane of reference approved in
l volume of sounding records for

F. E. 1 (1947); (S-2471)

HYDROGRAPHIC SHEET

Locality - Foul Weather Bay, Puget Sound, Washington

Chief of Party: T. B. Reed in 1947

Plane of reference is mean lower low water, reading

7.4 ft. on tide staff at Seattle, Washington

23.0 ft. below B. M. 3 (1927)

Allowance made for tange of tide at place of soundings. (Ratio .8)

Height of mean high water above plane of reference is 10.2 feet.

Condition of records satisfactory except as noted below:

E.C.McKay Section

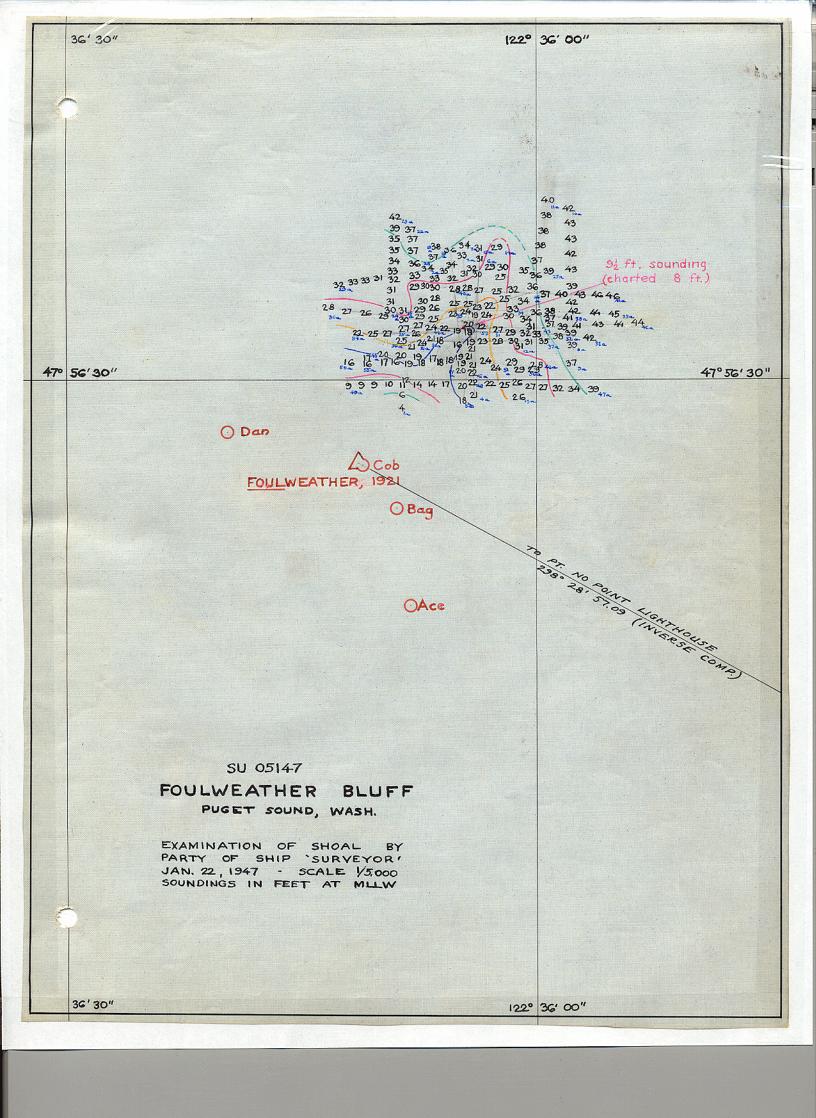
Chief, Division of Tides and Currents.

соучениему уклугие огуще 15432

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. FE -. No. 1 (1987)

| Records accompanying survey: | | | | | |
|---|-------------|---|--|--|--|
| Boat sheets; sounding vols; wire drag vols; | | | | | |
| bomb vols; graphic recorder rolls; | | | | | |
| special reports, etc | • • • • • • | • • • • • • • • • • • | | | |
| | • • • • • • | • | | | |
| The following statistics will be submitted wi rapher's report on the sheet: | th the | certog- | | | |
| Number of positions on sheet | | 56 | | | |
| Number of positions checked | | | | | |
| Number of positions revised | | | | | |
| Number of soundings revised (refers to depth only) | | 5 | | | |
| Number of soundings erroneously spaced | | | | | |
| Number of signals erroneously plotted or transferred | | | | | |
| Topographic details | Time | | | | |
| Junctions | Time | | | | |
| Verification of soundings from graphic record | Time | 1/2 hr. | | | |
| Verification by R.D. Gagdrich Total time | | | | | |
| Reviewed by | 18 hr. | Date 5/23/47 | | | |



NAUTICAL CHARTS BRANCH

SURVEY NO. F.E. 1 (1947)

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|--------|-------|--------------|--|
| 5/9/47 | 6421 | D.H. Benom | Before After Verification and Review, Removed: 8. Rt, and added A sogs. Champed curves. |
| | | | Before After Verification and Review |
| 7/7/47 | 6450 | Jam. | Beinge After Verification and Review |
| | | | Before After Verification and Review |
| | | | Before After Verification and Review |
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.